

U.S. NUCLEAR REGULATORY COMMISSION
OFFICE OF INSPECTION AND ENFORCEMENT

REGION I

Report No. 50-272/79-11

Docket No. 50-272

License No. DPR-70

Priority -

Category C

Licensee: Public Service Electric and Gas Company
80 Park Place
Newark, New Jersey 07101

Facility Name: Salem Nuclear Generating Station, Unit 1

Inspection At: Hancocks Bridge, New Jersey

Inspection Conducted: March 22-23, 1979

Inspectors:

J. R. White
J. R. White, Radiation Specialist

6/13/79
date signed

J. A. Serabian
J. A. Serabian, Radiation
Specialist (Intern)

6/13/79
date signed

Approved By:

H. W. Crocker
H. W. Crocker, Acting Chief
Radiation Support Section,
FF&MS Branch

6/13/79
date signed

Inspection Summary:

Inspection on March 22-23, 1979 (Report No. 50-272/79-11)

Areas Inspected: Routine, unannounced inspection by two NRC regional based inspectors of the radiation protection program as it relates to refueling outage preplanning activities including: Advanced Planning and Preparation; Training; Qualifications of Personnel; and Respiratory Protection. The inspection involved 26 hours on site by two NRC inspectors.

Results: Of the four areas inspected, no items of noncompliance were found.

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DETAILS

1. Persons Contacted

- *H. Midusa, Manager-Salem Generating Station
- *J. Gueller, Senior Performance Engineer
- *L. Miller, Station Performance Engineer
- *H. Lowe, Quality Assurance Engineer (Resident)
- *J. Stillman, Station Quality Assurance Engineer
- *W. Grali, Quality Assurance Staff Assistant
- M. Bell, Site Coordinator, Rad Services, Inc. (RSI)
- P. Greenbaum, Assistant Site Coordinator, RSI
- R. Hatch, Assistant Site Coordinator, RSI
- S. Sorenson, Quality Assurance and Control, RSI

The inspector also talked with and interviewed several other licensee employees, including station (and contractor) health physics staff.

*Denotes those present at the exit interview.

2. Advanced Planning and Preparation

The inspector reviewed the licensee's efforts with regard to the outage preparation in the following areas:

- a. Increased Health Physics Staff - The licensee has arranged to augment its staff with approximately 40 health physics personnel. These personnel reported on site approximately one week prior to the start of the outage in order to receive training in plant health physics procedures.

The contractor health physics vendor categorized its personnel into three principle groups: Level I, Level II, and Level III Technicians. A contractor representative stated that the Level I position denotes a junior technician (such as a control point monitor) who is not in a responsible position. Levels II and III positions denote a senior technician and a crew leader, respectively, and are regarded as able to fill responsible positions.

ANSI 18.1N-1971, "Section and Training of Nuclear Power Plant Personnel" (which is endorsed by Technical Specification 6.4) states in Section 4.5.2 that technicians shall have a

minimum of two years working experience in their specialty. The inspector reviewed the resumes of 16 contractor health physics personnel designated to be used as Level II and Level III Technicians during the outage. The inspector identified two instances in which an individual did not have the required two years of experience. The licensee representative stated that the work assignments of the two individuals would be modified such that they were not in responsible positions. Also, the licensee representative indicated that they would review contractor health physics resumes to ensure that, when applicable, the required two year experience criterion was met.

Deployment of contractor health physics technicians is planned to be at several discrete control points throughout the plant. Plant health physics technicians have been assigned oversight of the contractor health physics technicians whose control point work station is within their area of responsibility (e.g., reactor containment, aux. and fuel bldgs., etc.).

- b. Special Training - The inspector learned through discussion with the licensee representative that steam generator mock-up training had been conducted to familiarize personnel with the problems associated with the eddy current testing of the steam generator.
- c. Increased Supplies - The licensee representative indicated that additional protective clothing would be obtained to support the outage activities. In addition, the licensee has purchased more survey meters and dosimetry; a back-up thermoluminescent dosimeter reader has also been acquired. Portable tents (for containment) and air cleanup systems have been acquired for work involving the primary side of the steam generators.

The inspector observed that the licensee has setup a special dress-out and access point to accommodate the high influx of personnel expected during the outage. An adjacent health physics area has also been set up in order to bring the organization closer to field activities.

No items of noncompliance were identified in this area.

3. Training

The outage required additional personnel to augment the regular station staff. Training of supplemental personnel had commenced prior to the beginning of the outage to assure that (new) personnel were familiar with the emergency, security, and radiation protection aspects of the facility. A written examination for each section is given at the conclusion of the training to test the individual's retention.

The licensee representative informed the inspector that an additional instructor has been assigned, in view of the heavy influx of personnel anticipated.

No items of noncompliance were identified in this area.

4. Respiratory Protection

During the course of the inspection, the licensee representative indicated that a respiratory protection program was soon to be implemented in accordance with 10 CFR 20.103, "Exposure of individuals to concentrations of radioactive materials in air in restricted areas," Section (c), so that allowance could be made for use of respiratory protection in estimating exposures to individuals to airborne radioactive materials; and that a notification letter had been sent to the Commission. The inspector confirmed that the required 30 day notification to the Regional Office Director had been made pursuant to 10 CFR 20.103(e). The notification letter, dated April 2, 1979, states that the implementation and enforcement of the Respiratory Protection Program shall become effective 30 days from the date of the letter.

No items of noncompliance were identified in this area.

5. Exit Interview

The inspector met with the licensee's representatives (denoted in Paragraph 1) at the conclusion of the inspection on March 23, 1979. The inspector summarized the scope and findings of the inspection as noted in this report.